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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/675,699	09/29/2000	Scott R. McMullan	05-01-004 9584	
34279	7590 10/20/2004		EXAMINER	
DOCKET CLERK, DM/EDS			MAHMOUDI, HASSAN	
P.O. DRAWER 800889 DALLAS, TX 75380			ART UNIT	PAPER NUMBER
,			2175	
			DATE MAILED: 10/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.



		<u> </u>				
	Application No.	Applicant(s)				
	09/675,699	MCMULLAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tony Mahmoudi	2165				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nety filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 02 Ju	ine 2004.	•				
,						
3) Since this application is in condition for allowar	'-					
Disposition of Claims						
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) I he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form PTO-132.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		PRIMARY EXAMINER				
1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)				

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DETAILED ACTION

Remarks

1. In response to communications filed on 02-June-21004, claims 1-18 are presently pending in the application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Perkowski</u> (U.S. Pub. No. 2003/0139975) in view of <u>Erickson et al</u> (U.S. patent No. 6,412,009.)

As to claim 1, Perkowski teaches a computer system (see Abstract) comprising:

a first computer network (see figures 2-1 and 2-2 and see page 8, paragraph 96);

a first computer subsystem comprising (see figures 1 and 2C, and page 9, paragraph 102) collaborative application software (see page 8, paragraph 95), with the collaborative application software comprising machine readable instructions (see page 9, paragraph 105) for sending application output data over the computer network (see page 8, paragraphs 95-96, and see page 14, paragraph 175);

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a second computer subsystem structured to receive the application output data (see figure 2C, and see page 9, paragraph 102); and

a second-subsystem firewall (see figure 3C9), located in front of the second application subsystem (see figure 2C, and see page 9, paragraph 102), the second-subsystem firewall structured to communicate the application output data to the second computer subsystem (see page 14, paragraph 175) through a hypertext transfer protocol (see page 7, paragraph 83.)

<u>Perkowski</u> does not teach a keep-alive connection that is kept open for the duration of a collaboration (although <u>Perkowski</u> teaches a "dedicated Internet connection", see page 15, paragraph 178.)

Erickson et al teaches a persistent HTTP tunnel (see Abstract), in which he teaches a keep-alive connection that is kept open for the duration of a collaboration (see column 8, line 32 though column 9, line 24.)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> to include a keep-alive connection that is kept open for the duration of a collaboration.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> by the teaching of <u>Erickson et al</u>, because a keep-alive connection that is kept open for the duration of a collaboration, would enable the system to keep the connection active/alive even during periods of inactivity, as taught by <u>Erickson et al</u> (see column 9, lines 17-19.)

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As to claim 2, <u>Perkowski</u> as modified teaches wherein the computer system further comprises communication software (see <u>Perkowski</u>, page 11, paragraph 131) comprising machine readable instructions (it is inherent that communication software has machine readable instructions) for opening a first-subsystem thread in the second computer subsystem for receiving the application output data (see <u>Perkowski</u>, page 13, paragraph 163.)

As to claim 3, Perkowski as modified teaches wherein:

the second computer subsystem comprises a second-subsystem socket structured to receive the application output data (see <u>Perkowski</u>, page 18, paragraph 206); and

the communication software (see <u>Perkowski</u>, page 11, paragraph 131) further comprises machine readable instructions for causing the second-subsystem socket to block on a read (see <u>Perkowski</u>, page 18, paragraph 206, where "block on a read" is read on "carrying out a search".)

As to claim 4, <u>Perkowski</u> as modified teaches wherein the communication software further comprises instructions causing the first-subsystem thread to sleep (see <u>Perkowski</u>, page 24, paragraph 233, where "sleep" is read on "idle moment".)

As to claim 5, <u>Perkowski</u> as modified teaches wherein the collaborative application software sends the application output data as a stateful communication (see <u>Perkowski</u>, page 35, paragraph 340, where "stateful" is read on "reflecting the state of the client and the server".)

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As to claim 6, <u>Perkowski</u> as modified teaches the application output data is structured and arranged according to an HTTP protocol (see <u>Perkowski</u>, page 19, paragraph 208.)

Perkowski as modified still does not teach an HTTP 1.1 protocol.

Erickson et al teaches a persistent HTTP tunnel (see Abstract), in which he teaches an HTTP 1.1 protocol (see column 6, lines 14-18, and see column 7, lines 3-13.)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> as modified, to include an HTTP 1.1 protocol.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> as modified, by the teaching of <u>Erickson et al</u>, because "a newer" HTTP 1.1 protocol, would "provide a keep-alive mechanism that allows one connection for multiple objects on an HTML page, as taught by <u>Erickson et al</u> (see column 2, lines 10-19.)

As to claim 7, <u>Perkowski</u> as modified still does not teach wherein:

the second-subsystem firewall comprises a port 80; and

the application output data is communicated across the second-subsystem firewall through a connection originated through port 80.

Erickson et al teaches a persistent HTTP tunnel (see Abstract), in which he teaches: the second-subsystem firewall comprises a port 80 (see figure 3, port 130); and

the application output data is communicated across the second-subsystem firewall through a connection originated through port 80 (see column 5, line 47 through column 6, line 3.)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Perkowski as modified, to include the second-subsystem firewall comprises a port 80; and the application output data is communicated across the second-subsystem firewall through a connection originated through port 80.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Perkowski as modified, by the teaching of Erickson et al, because including the second-subsystem firewall comprises a port 80; and the application output data is communicated across the second-subsystem firewall through a connection originated through port 80, would prevent making additional holes in firewalls as taught by Erickson et al (see column 5, lines 60-62.)

As to claim 8, Perkowski as modified teaches wherein the first computer subsystem (see Perkowski, figure 2C) comprises:

- a server computer (see Perkowski, figure 2C, computer 202);
- a Web server computer (see Perkowski, figure 2C, server 133), and
- a second computer network structured to allow data communication between the server computer and the Web server computer (see Perkowski, figure 2C, the subsystem shown below the "corporate firewall".)

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As to claim 9, Perkowski as modified teaches wherein:

the server computer comprises at least a portion of the collaborative applications software (see Perkowski, page 11, paragraph 131); and

the Web server computer (see <u>Perkowski</u>, figure 2C, computer 133) is structured to receive the application output data from the server computer over the second computer network and to send the application output data to the second computer subsystem over the first computer network (see <u>Perkowski</u>, figure 2C, and see page 13, paragraphs 163-164.)

As to claim 10, <u>Perkowski</u> as modified teaches wherein:

the Web server computer (see <u>Perkowski</u>, figure 2C, computer 133) comprises a Web server socket structured to receive the application output data from the server computer over the second computer network (see <u>Perkowski</u>, page 9, paragraph 100); and

the communication software (see <u>Perkowski</u>, page 11, paragraph 131) further comprises machine readable instructions (it is inherent that communication software has machine readable instructions) for causing the Web server socket to block on a read (see <u>Perkowski</u>, page 18, paragraph 206, where "block on a read" is read on "carrying out a search".)

As to claim 11, <u>Perkowski</u> as modified teaches the system further comprising: a third computer subsystem structured to receive the application output data (see <u>Perkowski</u>, figure 3A9); and

a third-subsystem firewall, located in front of the third computer subsystem the third subsystem firewall structured to communicate the application output data to the third computer subsystem through a hypertext transfer protocol (see <u>Perkowski</u>, page 7, paragraph 83) keep-alive connection (see <u>Erickson et al</u>, column 8, line 32 though column 9, line 24.)

As to claim 12, Perkowski as modified teaches wherein:

the third computer subsystem comprises a third-subsystem socket structured to receive the application output data (see <u>Perkowski</u>, page 18, paragraph 206); and

the communication software further comprises machine readable instructions for causing the third-subsystem socket to block on a read (see <u>Perkowski</u>, page 18, paragraph 206, where "block on a read" is read on "carrying out a search".)

As to claim 13, <u>Perkowski</u> as modified teaches wherein communication between the first computer subsystem, the second computer subsystem and the third computer subsystem is in real-time (see <u>Perkowski</u>, page 67, paragraph 760.)

As to claim 14, <u>Perkowski</u> as modified teaches wherein the collaborative application software comprises at least one of the following functions: a word processor, a task scheduling tool, a graphics program, a presentation program, a spreadsheet, a game, a music studio (see <u>Perkowski</u>, page 66, paragraph 757.)

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As to claim 15, <u>Perkowski</u> teaches a method of communicating over a computer network (see Abstract), the method comprising the steps of:

generating, by a collaborative application software residing on a server computer, an application output communication (see page 8, paragraph 97);

sending, over a first computer network (see figure 2C), the application output communication to a client firewall (see page 7, paragraph 83);

communicating the application output communication (see page 2, paragraph 22, where "communicating" is read on "transmitting") across the client firewall through a hypertext transfer protocol (see page 15, paragraph 178); and

receiving the application output data at a client computer (see page 14, paragraph 175.)

<u>Perkowski</u> does not teach a keep alive connection; and keeping the hypertext transfer protocol keep-alive connection for the duration of a collaboration (although <u>Perkowski</u> teaches a "dedicated Internet connection", see page 15, paragraph 178.)

Erickson et al teaches a persistent HTTP tunnel (see Abstract), in which he teaches a keep-alive connection that is kept open for the duration of a collaboration (see column 8, line 32 though column 9, line 24.)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> to include a keep-alive connection that is kept open for the duration of a collaboration.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> by the teaching of <u>Erickson et al</u>, because a keep-alive connection that is kept open for the duration of a collaboration, would enable the

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system to keep the connection active/alive even during periods of inactivity, as taught by Erickson et al (see column 9, lines 17-19.)

As to claim 16, <u>Perkowski</u> as modified teaches wherein the client computer blocks on a read when waiting for and receiving the application output data (see <u>Perkowski</u>, page 18, paragraph 206, where "block on a read" is read on "carrying out a search".)

As to claim 17, <u>Perkowski</u> as modified teaches the method further comprising the step of originating a connection across the client firewall through a port of client firewall (see figure 2C.)

<u>Perkowski</u> as modified still does not teach connecting through port 80 of the firewall.

Erickson et al teaches a persistent HTTP tunnel (see Abstract), in which he teaches connecting through port 80 of the firewall (see column 5, line 47 through column 6, line 3.)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> as modified, to include connecting through port 80 of the firewall.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> as modified, by the teaching of <u>Erickson et al</u>, because connecting through port 80 of the firewall, would prevent making additional holes in firewalls as taught by <u>Erickson et al</u> (see column 5, lines 60-62.)

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As to claim 18, <u>Perkowski</u> as modified teaches wherein the application output data is sent, at the sending step, as a plurality of data packets structured and arranged according to HTTP (see page 19, paragraph 208.)

Perkowski as modified still does not teach an HTTP 1.1.

Erickson et al teaches a persistent HTTP tunnel (see Abstract), in which he teaches an HTTP 1.1 (see column 6, lines 14-18, and see column 7, lines 3-13.)

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> as modified, to include an HTTP 1.1.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified <u>Perkowski</u> as modified, by the teaching of <u>Erickson et al</u>, because "a newer" HTTP 1.1, would "provide a keep-alive mechanism that allows one connection for multiple objects on an HTML page, as taught by <u>Erickson et al</u> (see column 2, lines 10-19)

Response to Arguments

4. Applicant's arguments filed on 02-June-2004 with respect to the rejected claims in view of the cited references have been fully considered but they are not deemed persuasive:

In response to the applicant's arguments regarding the arrangement of the disclosed specification, the arguments are fully considered and the applicant's remarks are noted. The Objection previously made to the arrangement of specification is withdrawn by the examiner.

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In response to the applicant's arguments that limitations of claim 1 "are not taught or suggested by Perkowski, Erickson or a combination of them", the arguments have been fully considered but are not deemed persuasive, because <u>Perkowski</u> teaches: a first computer subsystem comprising (see figures 1 and 2C, and page 9, paragraph 102) collaborative application software (see page 8, paragraph 95), with the collaborative application software comprising machine readable instructions (see page 9, paragraph 105) for sending application output data over the computer network (see page 8, paragraphs 95-96, and see page 14, paragraph 175); and communicating the application output data to the second computer subsystem (see page 14, paragraph 175) through a hypertext transfer protocol (see page 7, paragraph 83.)

In response to the applicant's arguments that "nothing in this description, these figures, or anywhere else in Perkowski teaches or suggests that the Collaborative Replenishment System sends output data over a network, through a second sub-system firewall, to a second computer subsystem", the arguments have been fully considered but are not deemed persuasive, because "Collaborative Replenishment System" is not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Furthermore, <u>Perkowski</u> teaches a second-subsystem firewall (see figure 3C9), located in front of the second application subsystem (see figure 2C, and see page 9, paragraph 102), the second-subsystem firewall structured to communicate the

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application output data to the second computer subsystem (see page 14, paragraph 175) through a hypertext transfer protocol (see page 7, paragraph 83.)

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In response to the applicant's arguments that "there appears to be no such motivation discussed in the references themselves, and nothing to indicate that Erickson's approach would be advantageous or even operable in Perkowski's system", the arguments have been fully considered but are not deemed persuasive, because the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, both cited references teach inventions that are in the same field of endeavor, and the examiner is establishing obviousness in the knowledge generally available to one of ordinary skill in the art, to modify <u>Perkowski</u> by the teaching of <u>Erickson</u>, because a keep-alive connection that is kept open for the duration of a collaboration, would enable the system to keep the connection active/alive even during periods of inactivity, as taught by Erickson et al (see column 9, lines 17-19.)

In response to the applicant's arguments regarding "threads" in the second computer subsystem, the arguments have been fully considered but are not deemed persuasive, because

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<u>Perkowski</u> teaches opening a first-subsystem thread in the second computer subsystem for receiving the application output data in page 13, paragraph 163.

In response to the applicant's arguments regarding "block on a read", the arguments have been fully considered but are not deemed persuasive, because the examiner is reading "blocking on a read" on <u>Perkowski's</u> "carrying out a search" in paragraph 206.

In response to the applicant's arguments regarding "keep-alive connection", "data transfer", and "causing the first subsystem thread to sleep", the applicant is directed to the remarks and discussions made in the rejection of the above referenced claims.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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6. Any inquiries concerning this communication or earlier communications from the examiner should be directed to Tony Mahmoudi whose telephone number is (703) 305-4887. The examiner can normally be reached on Mondays-Fridays from 08:00 am to 04:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici, can be reached at (703) 305-3830.

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October 12, 2004

SAM RIMELL PRIMARY EXAMINER